



APPLICATION NO. 09/826,118

INVENTION: ~~New Wavelet Multi-Resolution Waveforms~~  
INVENTORS: Urbain Alfred von der Embse

RECEIVED

MAY 28 2004

Technology Center 2100

### CROSS-REFERENCE TO RELATED APPLICATIONS

#### U.S. PATENT DOCUMENTS

US-5,453,945	Sept 26 1995	Tucker et al.
US-5,526,446	June 11 1996	Adelson et al.
US-5,845,243	Dec 1 1998	Smart et al.
US-5,937,009	Aug 10 1999	Wong et al.
US-5,953,388	Sept 14 1999	Walnut et al.
US-6,064,768	May 16 2000	Hajj et al.
US-6,091,777	Jul 18 2000	Guetz et al.
US-6,182,035	Jan 30 2001	Mekuria
US-6,477,553	Nov 5 2002	Druck
US-6,584,111	June 24 2003	Aweya et al.
US-6,643,406	Nov 4 2003	Hajjahmad et al.
US-6,687,422	Feb 3 2004	Chen et al.

#### OTHER PUBLICATIONS

"A Computer Program for Designing Optimum FIR Linear Phase Filters" J.H. Mc.Clellan, T.W. Parks and L.R. Rabiner, IEEE Trans Audio Electroacoust. Vol. AU-21, Dec. 1973, pp. 506-526

"Eigenvalues: A New Approach to Least-Squares FIR Filter Design and Applications Including Nyquist Filters", P.P. Vaidyanathan and T.Q. Nguyen, IEEE Trans. on Circuits and Systems, Vo. CAS-34, No. 1, Jan. 1987, pp 11-23

"Wavelet Transform based Fast Approximate Fourier Transform", Haitao Guo, Sidney Burrus, 1997, IEEE, pp. 1973-1976

"A new design algorithm for two-band orthonormal rational filter banks and orthonormal rational Wavelets", T. Blu, IEEE Signal Processing, June 1998, pp. 1494-1504

"Optimum discrete Wavelet scaling and its application to delay and Doppler estimation", K.C. Ho and Y. T. Chan, IEEE Signal Processing, Sept. 1998, pp. 2285-2290

"Progressive Wavelet Correlation Using Fourier Analysis", Harold S. Stone, 01/1999 IEEE Transactions on Signal Processing Vol 47, No 1, pp 97-107 IEEE

"2-D and 1-D Multipaired Transforms: Frequency-Time Type Wavelets", Artyom M. Grigoryan, 02/2001 IEEE Transactions on Signal Processing , Vol. 49 No. 2, pages 344-353